

Amendments to NRA-99-OES-02

1. The following text replaces the opening four paragraphs in Section III.b.

III.b Pre-Service Teacher Enhancement

NASA intends to award grants to support university teams of education/science education faculty and science, engineering, or other technical faculty. The teams will combine their expertise to augment existing curriculum or develop new courses for students of education at their home institution, incorporating Earth system science-related concepts. The award is meant to specifically offer the equivalent of 3 hour course release time plus travel compensation for up to 20 professors (or 10 teams) per year. This assumes that each home institution will match NASA's contribution to cover release time for each participant.

The purpose of these awards is to stimulate the relationships between the schools of education and schools of math, science and technology to specifically address the needs of pre-service education students. Earth systems science, remote sensing technology, data assessment and applications are all integral parts of observing our planet from space. Infusing this holistic approach to studying the planet into the required courses for teacher certification will develop a national cadre of K-12 educators that may pass on this cutting edge approach to their elementary and secondary students.

The targeted population for the augmented or newly developed courses is pre-service educators. However, they are not limited to future educators of science, math and technology. Earth system science concepts can be part of these disciplines as well as English, geography, social studies, history, etc. Therefore, any attempts to influence the curriculum of students of education in various disciplines and various grade levels is highly encouraged.

Proposers are also encouraged to partner with teams from other institutions to make a regional, national or statewide impact. An example of a successful, national pre-service science and math education program is NOVA (NASA Opportunities for Visionary Academics) <http://www.eng.ua.edu/~nova> while NASA's Project ALERT (Augmented Learning Environment and Renewable Teaching) <http://projectalert.nasa.gov/>, is an excellent example of a statewide pre-service science education partnership for the State of California.

2. The proposal due date is now September 8, 1999